MLD LVJ

AIR-WATER
HEAT PUMPS
FOR OUTDOOR INSTALLATION

Options

Operating mode
- R - Heating and cooling (reversible on refrigerant side)

Heat recovery
- Base version
- Desuperheater version

Acoustic setting up
- B - Base setting up
- S - Low noise setting up

Plant side flow rate management
- None
- Standard pump
- Modulating pump
- High head pump

Accessories

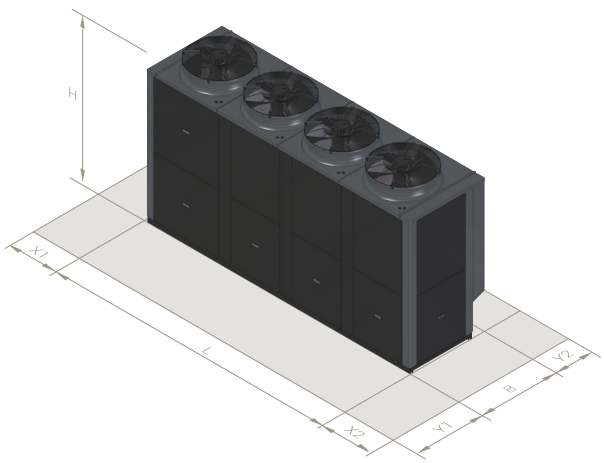
Vibration dampers
Remote interface

	TECHNICAL DATA	75	100	
	Efficiency class - EU reg 811/2013 *average climate - medium temperature appplication*	**A++**	**A++**	-
	Power supply	400V - 3N - 50Hz		-
	Refrigerant	R454B		-
	Type of compressors	high temperature scroll inverter BLDC with vapour injection		-
	N° of compressors / N° of refrigerant circuits	2 / 1		-
	Type of plant side heat exchangers	stainless steel brazed plates		-
	Type of source side heat exchangers	finned coil copper - hydrophilic aluminum		-
	Type of fans	axial EC		-
	N° of fans	3	4	-
	Hydraulic fittings	2"M	2" M	-
	Weight *	648	785	kg
	Maximum power input *	39,0	49,0	kW

** base unit without options and accessories*

	OPERATING RANGE	HEATING		COOLING		
		min	max	min	max	
	Water outlet temperature	15	65 *	6	25	°C
	Outside air inlet temperature	-22	42	5	47	°C

** The maximum water outlet temperature can be increased up to 70°C keeping a ΔT of 10°C between inlet and outlet*



	75	100	
L	2480	3230	mm
B	930	930	mm
H	1830	1830	mm
X1	500	500	mm
X2	500	500	mm
Y1	1000	1000	mm
Y2	500	500	mm

	HEATING	A	W	75	100	
A7W35	Heating capacity	7	35	73,9	92,5	kW
	Power input			16,2	20,5	kW
	COP			**4,56**	**4,51**	-
	Plant side water flow rate			12753	15951	l/h
	Plant side pressure drops			22	25	kPa
A7W45	Heating capacity	7	45	74,8	93,6	kW
	Power input			20,2	25,6	kW
	COP			**3,70**	**3,66**	-
	Plant side water flow rate			12949	16197	l/h
	Plant side pressure drops			23	26	kPa
A7W55	Heating capacity	7	55	76,0	95,1	kW
	Power input			24,2	30,7	kW
	COP			**3,14**	**3,10**	-
	Plant side water flow rate			8269	10343	l/h
	Plant side pressure drops			10	11	kPa
A7W65	Heating capacity	7	65	77,7	97,3	kW
	Power input			29,9	37,8	kW
	COP			**2,60**	**2,57**	-
	Plant side water flow rate			6795	8499	l/h
	Plant side pressure drops			7	8	kPa
A2W35	Heating capacity	2	35	62,3	78,0	kW
	Power input			16,3	20,6	kW
	COP			**3,82**	**3,79**	-
	Plant side water flow rate			10759	13458	l/h
	Plant side pressure drops			17	18	kPa
A2W45	Heating capacity	2	45	63,3	79,2	kW
	Power input			20,2	25,6	kW
	COP			**3,13**	**3,09**	-
	Plant side water flow rate			10970	13721	l/h
	Plant side pressure drops			17	19	kPa
A2W55	Heating capacity	2	55	64,7	80,9	kW
	Power input			24,3	30,7	kW
	COP			**2,66**	**2,64**	-
	Plant side water flow rate			7037	8802	l/h
	Plant side pressure drops			8	9	kPa
A2W65	Heating capacity	2	65	66,5	83,2	kW
	Power input			30,0	37,9	kW
	COP			**2,22**	**2,20**	-
	Plant side water flow rate			5815	7274	l/h
	Plant side pressure drops			5	6	kPa

	COOLING	A	W	75	100	
A35W7	Cooling capacity	35	7	58,0	72,6	kW
	Power input			18,2	23,0	kW
	EER			**3,19**	**3,16**	-
	Plant side water flow rate			9988	12493	l/h
	Plant side pressure drops			15	16	kPa
A35W18	Cooling capacity	35	18	76,7	95,9	kW
	Power input			19,7	24,9	kW
	EER			**3,89**	**3,85**	-
	Plant side water flow rate			13267	16595	l/h
	Plant side pressure drops			24	27	kPa

	ACOUSTIC PERFORMANCES	A	W	75	100	
Base	Sound power level	7	35	**80**	**81**	dB(A)
	Sound pressure level - 1 m			63	64	dB(A)
	Sound pressure level - 5 m			53	55	dB(A)
	Sound pressure level - 10 m			48	50	dB(A)
Low noise	Sound power level	7	35	**77**	**78**	dB(A)
	Sound pressure level - 1 m			60	61	dB(A)
	Sound pressure level - 5 m			50	52	dB(A)
	Sound pressure level - 10 m			45	47	dB(A)

Data declared according to EN 14511. Acoustic performances declared according to EN 12102. The data are related to units working at the **nominal frequency**, without options or accessories.

A7W35	=	source :	air in 7°C db 6°C wb	plant :	water in 30°C out 35°C	A2W35	=	source :	air in 2°C db 1°C wb	plant :	water in 30°C out 35°C
A7W45	=	source :	air in 7°C db 6°C wb	plant :	water in 40°C out 45°C	A2W45	=	source :	air in 2°C db 1°C wb	plant :	water in 40°C out 45°C
A7W55	=	source :	air in 7°C dd 6°C wb	plant :	water in 47°C out 55°C	A2W55	=	source :	air in 2°C db 1°C wb	plant :	water in 47°C out 55°C
A7W65	=	source :	air in 7°C db 6°C wb	plant :	water in 55°C out 65°C	A2W65	=	source :	air in 2°C db 1°C wb	plant :	water in 55°C out 65°C
A35W7	=	source :	air in 35°C db	plant :	water in 12°C out 7°C						
A35W18	=	source :	air in 35°C db	plant :	water in 23°C out 18°C						